ACID RAIN PROGRAM PERMIT

Ameren Energy Generating Co./Ameren Services Attn: Mr. Daniel F. Cole, Designated Representative 1901 Chouteau Avenue P.O. Box 66149, MC 07 St. Louis, Missouri 63166-6149

Oris No.: 863

IEPA I.D. No.: 033801AAA

Source/Unit: Hutsonville Power Station/ Units 5 and 6

<u>Date Received:</u> July 2, 2004 <u>Date Issued:</u> March 18, 2005

Effective Date: January 1, 2005 Expiration Date: December 31, 2009

STATEMENT OF BASIS:

In accordance with Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program Permit to Ameren Energy Generating Company for its Hutsonville Power Station.

SULFUR DIOXIDE (SO₂) ALLOCATIONS AND NITROGEN OXIDES (NO_x) LIMITS FOR EACH AFFECTED UNIT:

	SO ₂ Allowances,	2005	2006	2007	2008	2009
UNIT 5	under Tables 2, 3, or 4 of 40 CFR Part 73*	2,223	2,223	2,223	2,223	2,223
NO _x Limit See Provisions for NO _x Averaging Plan, F						elow

* Also includes return of repowering deduction of 1 allowance, which was returned by USEPA on October 30, 2000.

UNIT 6	SO ₂ Allowances,	2005	2006	2007	2008	2009
	under Tables 2, 3, or 4 of 40 CFR Part 73*	2,302	2,302	2,302	2,302	2,302

NO _x Limit	See Provisions for NO _x Averaging Plan, Below

* Also includes return of repowering deduction of 1 allowance, which was returned by USEPA on October 30, 2000.

NO_X EMISSIONS AVERAGING PLAN

Pursuant to 40 CFR 76.11, the Illinois EPA approves a NO_x emissions averaging plan that includes the above affected units, effective for calendar years 2005 through 2009 (attached). Under this plan, except as provided below, the NO_x emissions of Hutsonville Units 5 and 6 each shall not exceed the annual average alternative contemporaneous emission limitation of 0.45 lb/mmBtu.

Under this plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated during that calendar year in compliance with the applicable emission limitation under 40 CFR 76.5, 76.6, or 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then the units covered by the plan shall be deemed to be in compliance for that year with their alternative contemporaneous annual emission limitations and any annual heat input limits.

PERMIT APPLICATION: The permit application, including the NO_x Compliance Plan and NO_x Averaging Plan, is attached and incorporated as part of this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

COMMENTS, NOTES, AND JUSTIFICATIONS: This permit contains provisions related to SO₂ emissions and requires the owners and operators to hold SO₂ allowances under the federal Acid Rain program to account for SO₂ emissions from the affected units. An allowance is a limited authorization to emit up to one ton of SO₂ during or after a specified calendar year. The transfer of allowances to and from a unit account does not necessitate a revision to the unit SO₂ allocations denoted in this permit (See 40 CFR 72.84).

This permit contains provisions related to NO_x emissions requiring affected units to comply with applicable emission limitations for NO_x under the Acid Rain program. Pursuant to 40 CFR 76.11, the Illinois EPA is approving a NO_x emission averaging plan that includes Hutsonville Units 5 and 6 for calendars years 2005 though 2009. In addition to the described NO_X compliance plan, each unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

This permit does not affect the source's responsibility to meet all other applicable local, state and federal requirements, including state requirements under 35 Ill. Adm. Code Part 217 Subpart W, which addresses NOx emissions from Hutsonville Units 5 and 6.

If you have any questions regarding this permit, please contact Kuni Patel at 217-782-2113.

Donald E. Sutton, P.E. Manager, Permits Section

Page 3

Division of Air Pollution Control

DES:KP:jar

Cecilia Mijares, USEPA Region V Dean Hayden, IEPA Region 2 cc:



Acid Rain Permit Application

This submission is: 🖸 Hew	Revised	
Plant Name Hutsonville	State IL	ORIS Code 863
	Hutsonville	District the Control of the Control

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d"

	6		U
Unit IDE	Unit Will Hold Allowances in Accordance with 20 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
05	Yes		
06	Yes		
	Yes		
	Yes		
	Vos		
	Yes		
	Y		
	Yes		4

Hutsonville Plant Name (from Step.

Permit Requirements

STEP 3

Road the requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72 30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring. requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions. limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
- (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Hutsonville Plant Name (from Step 1)

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77. (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(iii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

Unless otherwise provided, the owners and operators of the source and each affected. unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping.

the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all

records made or required under the Acid Rain Program; and. (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Plant Name (from Step 1)

Hutsonville

Step 3, Cont'd.

Liability, Cont'd

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.

(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided unit shall also apply to the owners and operators of such unit. Except as provided unit 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative. affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative

of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as: (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans:

(2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any

other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and regulation, including any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement,

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and arm familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements. and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Daniel F. Cole		
Signatur	· Doniel F. Ch	Date 6/30/14	

EPA Form 7610-16 (rev. 12-03)

Phase II NO_X Compliance Plan Page [] of [2]

	For more information, see instructions and refer to 46 CFR 76.9 This submission is: [X] New								
STEP 1 Indicate plant name, State, and ORIS code from NAME, if applicable	Plant Name	Hutsonville			IL State 0	863 ORIS Code			
STEP 2	Identify eac applicable bottom wall indicate the	h affected Group loriteate holler fy fired, "T" for tah compliance optic	1 and Group 2 boi po: "CR" for call b gentially fired, "V" on selected for each	ler using the boi urnor, "CY" for o for vertically fin th unit.	ler ID# from NAI cyclone, "DBW" ed, and WB" for	0B, ≢ for dry wet bottom.			
	O5	DA 06	DA	C#	io.	D.			
	Туре Т	Туре Т	Туре	Туре	туре	Туре			
(a) Standard armust average emission limitation of 0.50 (b)mm8tu (to; Phose) dry bottom wall-fired Scillers)									
(b) Standard annual average emission Emilation of 0.45 (b)mm8tu (for Phase) temperatally form furthers)									
(c) EPA-approved early election plen under 49 GFR 76.5 through 12/31/07 (also indicate above emission limit specified in plan	å □								
(d) Standard annual everage emission English of 0.46 [binmBtu (for Phase II dry bottom wall-first botters)						0			
(e) Standard annual average emission limitation of 0.40 torumiau (ror Phase) i tangentially fired bottors)	П	П	П			0			
(ii) Standard annual average emission limitation of 0.65 (bipmellis (for eall burner bollers)									
(g) Standard armusi sverage efricasion limitation of 8.86 (bramātu (for cyclone boilers)									
(h) Standard annual average orthogon limitation of \$.35 (bimmetu (for vertically fired bollers)		. 0							
(i) Standard armusi syerage emission limitetion of 0.84 Semetitu (for wel bottom boliers)									
(i) NO, Averaging Plan (include NO, Averaging form)	X	(X)							
(ii) Continue slack gursuant to 45 CM 12 High CM M (check the standard emission limitation loss above for most straiged fundation applicable any unit utilizing stack)									
ill Common etsek punuant jo CFR 75 17 av 20 ill B. wen NO. Averraling Plan box and includ NO. Averaging form)						0			

	Plant Karre (fro	Hutson Step 1)	wille		ко, с	ompkance - Page 2 Page [2] of [2]
STEP 2, cont'd.	C4	D#	EM .	Da	DA	ION
	Туре	Туре	Турю	туре	Туре	Турм
(m) EPA-approved common stack appartization in period persuant to \$1 PAT () (1) (a)(2)(i)(C), (a)(2)(a)(0)), or (b)(2)	п				
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Pedison, or AEL floriewol form as appropriate)						
(o) Petition for AEL, demonstration period or final AFL under review by U.S. EPA demonstration period ongoing						
(p) Representing automates plan approved or under review			П	П		

SIEP 3 Read the standard requirements and certification, enter name of the design

Standard Requirements

Steamed. This source is subject to the standard requirements in 45 GPR 72.0 (consistent with 40 GFR 79.5(c)(1)(f). Those requirements are listed in this source's Add Rain Pormit.

Special Provisions for Early Election Units

Narrogen Codes: A unit that is governed by an approved early election plan shall be subject to an emissions invalued to the CFR 76 she(shall) amongst as provided under 40 CFR 76 she(shall). It is supported and operators of a unit governed by an approved early election plan shall be fable for any addition of the plan or A1 CFR 78 if at their unit. The covers and questions shall be fable, beginning January 1, 2003, for fulfilling the obligations specified in 40 CFR Port 77. Termination. An approved early election plan shall be in effect only until the center of January 1, 2003 or January 1 of the calendar year for which is termination of the plan takes effect. If the designated representative of the unit under an approved early election plan that is the plan takes effect. If the designated representation that the unit under an approved early election plan the plan takes effect. If the applicable emissions limitation under 40 CFR 78. The obligation of the plan takes offer the plan takes that year the early effective latest effect and energy December 31, 2007, the permitting subsortly will terminate the plan that year the early effective will be celebrated and energy December 31, 2007, the permitting subsortly will terminate the plan to december any expension and the energy effective plan and the energy effective plan and the energy permitted in 2006, that may not extend a new early effective plan may be reminate the plan any permitted in the designation must subside a neitic under 40 CFR 72.40td by January 1 of the user for which the terminate in a text effect. If an early effection plan is terminate on or after 2000, the unit shall meet, beginning on the effective date of the termination, the application emissions limitation for NO, for Phase II units with Group 1 believe under 40 CFR 78.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the application emissions limitation for PNO, for Phase II units with Group 1 believe under 40

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the colorisation is made. I usually under penetry of less that I have percently operatines, and son familiar with, the statements and information submitted in this document and all its attachments. Based on my impairs of those includes the third primary responsibility for extensing the information. I confly that the statements and information are to the basis of my knowledge and belief have counter, and complete. I am assets that there are significant consider the submitted laste statements and information, including the possibility of fine or imprisonment.

Daniel F. Cole	
someth a	Des 6/30/04



Phase II NO_x Averaging Plan

For	more in	domation,	see in	sinct	one and	refer to	40 CFR	76.11
	CHILD ST. ST.	CONTRACTOR OF THE PARTY OF THE	Owner, res	manage p	G100 00110	1444-90	THE WOLLD	

This submission is: New | New | Newsed

Page 1 Page [] of [3]

STEP 1

identify the units participating in this averaging plan by plant name, State, and boiler ID# from MADB. In column (a), fill in each unit's applicable emission imitation from 40 CFR 78.5, 78.5, or 78.7. In setumn (b), cooling an alternating contemporarseous. alternative contemporariscus annual emissions ilmitation (ACEL) in ibmmetu to each unit, in column [c], assign on onnual heat input limitation in mmëtu to each unit. Continue to page 3 if necessary.

Plant Kurse	State	104	(a) Emission Limitation	(b) ACEL	(c) Annual Heatlingus Line
Coffeen	1L	01	0.86	0.86	22,000,000
Coffeen	11.	02	0.86	0.86	38,000,000
Hutsonville	II.	05	0.45	0.45	3,100,000
Hutsonville	1L	06	0.45	0.45	3,200,000
Meredosia	1L	01	0.45	0.45	1,300,000
Meredosia	IL.	02	0.45	0.45	1,300,000
Meredosia	11.	03	0.45	0.45	1,300,000
Meredosia	IL.	04	0.45	0.45	1,300,000
Meredosia	IL	05	0.45	0.45	12,000,000

STEP 2

Use the formula to enter the Bhu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Bhu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the lester.

Blu-weighted annual emission rate averaged over the units if they are operated in accordance with the processed averaging plan.

0.607

Blu-weighted annual average emission rate for some units operated in compliance with 40 CFR 78.5, 78.6 or 78.7

0.607

$$\frac{\sum_{i=1}^{n} (R_{ni} \times HI_{i})}{\sum_{i=1}^{n} HI_{i}}$$

$$\frac{\sum\limits_{i=1}^{n} (R_{2i} \times HI_i)}{\sum\limits_{i=1}^{n} HI_i}$$

Where,

Abemative contemporaneous annual emission limitation for unit i, in ib/mmBtu, as specified in column (b) of Step 1: Applicable emission femalities for unit i, in lahmiditu, as specified in column (a) of Step 1: Annual heart input for unit i, in mmBtu, as specified in column (c) of Step 1: Number of units in the averaging plan Ru

R

H.

Plant Name (from Step 1) Hutsonville

NO, Averaging - Page 3

(*)

Det.

(0)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Kome	Dais	D#	Errission Limitation	Contemp. Emboken Limitation	AnnualHeelinputLin
Newton	П.	1	0.45	0.45	36,000,000
Newton	ш	2	0.45	0.45	37,000,000
45 -11					

	Plant Name (from Step 1) Hutsonville NO, Averaging - Page 2
STEP 3 Mark one of the two options and enter dates.	X This plan is effective for calendar year 2005 through calendar year 2009 unless notification to terminate the plan is given.
	Treat this plan as ill identical plans, each effective for one calendar year for the following
	callender years:, and unless not lication to terminate one or more of these plans is given.
STEP 4	Special Provisions
Read the special provisions and certification, awar the name of the designated representative, and sign and date.	Emission Limitations
	Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO, under the plan only if the following requirements are met.
	(i) For each unit, the units actual annual everage emission into for the colondor year, in bihmmilit, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and (a) For each unit with an alternative contemporaneous emission limitation less stringer than the applicable emission into the calendar year does not exceed the annual heat input limit in the averaging oten. (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in all CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging pten, or (ii) flore or more of the units does notimet the requirements of (ii), the designated representative shall demonstrate, in accordance of the CFR 76.1 (iii) (iii)(iii)(iii) and (iii), that the adual Divinesignated envirual average emission ratio for the units in the pten is less than or equal to the Blu-weighted annual average rate for the same units had they each been appareds, quiting the serve period of time, in compliance with the applicable emission inhabitors in 40 CFR 76.5, or 76.7. (iii) if there is a successful group showing of compliance under 40 CFR 78.1 (iii)(iii)(iii)(iiii)(iiiiiii) and (iiii) annual units in the sveraging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (ii).
	The owners and operators of a unit governed by an opproved everying plan shall be liable for any violation of the plan or his section at the tunitor any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Art
	Termination
	The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.
	Certification
	I am authorized to make this submission is internal following and operators of the effected acuron or officered units for which the submission is made. I cartify under penalty of law that I have personally examined, and am termiser with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, footify that the statements and information are to the best of my unoutedge and helief time, accurate and complete. I am aware that there are significant penalties for submitting lake statements and information or omitting required statements and information, including the possibility of fine or imprisonment.
	Design Cole

Damil 7.a

Date 6/30/64